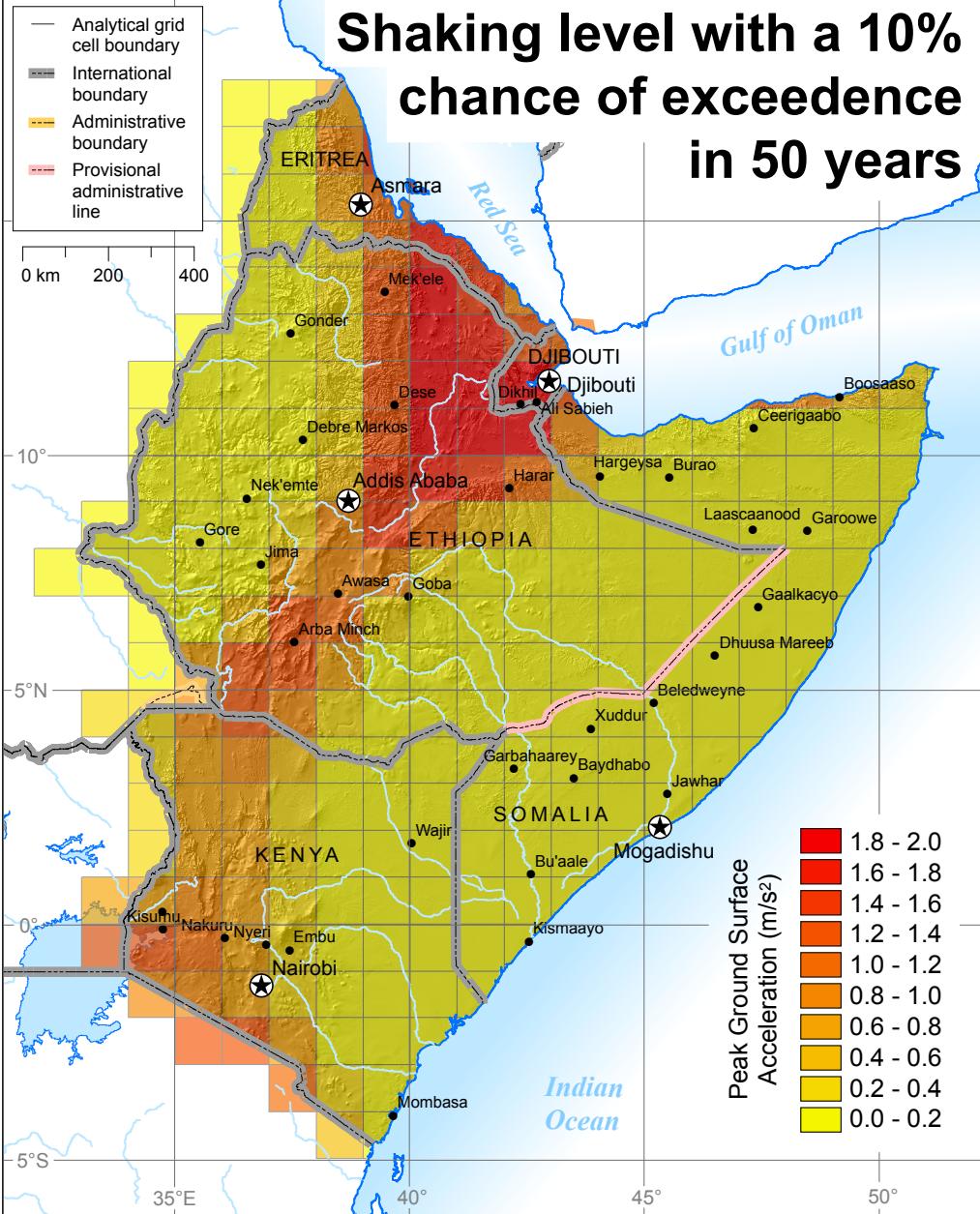
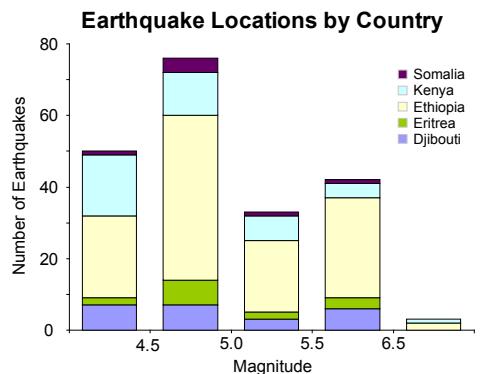
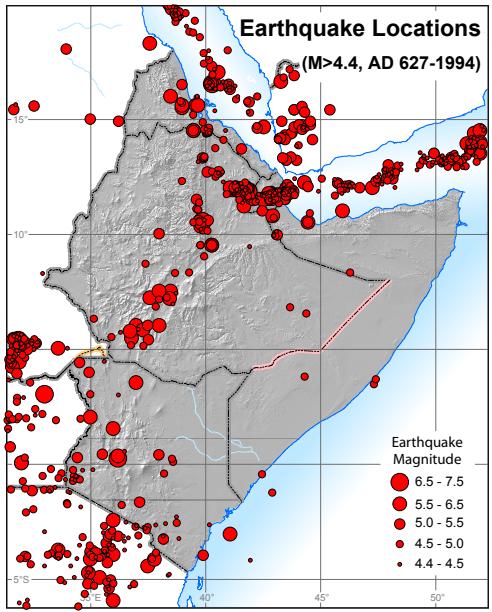


# Shaking level with a 10% chance of exceedence in 50 years



The Horn of Africa has significant seismic hazard associated with the East African rift system. A number of destructive earthquakes, some deadly, have been reported this century. Notable events include the 1921 earthquake that destroyed the port city of Massawa in Eritrea. In Ethiopia, the 1961 M=6.1 Kara Kore earthquake destroyed the town of Majete, the 1969 M=6.3 Serdo event resulted in four deaths, and the 1989 M=6.5 Dobi graben earthquake destroyed several bridges between Assab and Addis Ababa.



Earthquake location, magnitude, and probability data are taken from the Global Seismic Hazard Assessment Program (GSHAP), which evaluated earthquakes occurring in the period A.D. 627-1994. Shaking levels are shown as peak ground surface acceleration. Accelerations of 1 to 2  $\text{m/s}^2$  are considered strong to very strong shaking and will produce light to moderate damage. Note that a  $M > 7$  event could produce shaking that far exceeds 2  $\text{m/s}^2$ .

